

# Friederike Stumpff

## List of Publications by Year in descending order

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39  
papers

1,657  
citations

331538

21  
h-index

360920

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial butyrate and its role for barrier function in the gastrointestinal tract. <i>Annals of the New York Academy of Sciences</i> , 2012, 1258, 52-59.	1.8	329
2	The regulation of trabecular meshwork and ciliary muscle contractility. <i>Progress in Retinal and Eye Research</i> , 2000, 19, 271-295.	7.3	294
3	Ammonia and urea transport across the rumen epithelium: a review. <i>Animal Health Research Reviews</i> , 2006, 7, 43-59.	1.4	131
4	A look at the smelly side of physiology: transport of short chain fatty acids. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 571-598.	1.3	97
5	Down-regulation of monocarboxylate transporter 1 ( <i>MCT1</i> ) gene expression in the colon of piglets is linked to bacterial protein fermentation and pro-inflammatory cytokine-mediated signalling. <i>British Journal of Nutrition</i> , 2015, 113, 610-617.	1.2	85
6	Bicarbonate-dependent and bicarbonate-independent mechanisms contribute to nondiffusive uptake of acetate in the ruminal epithelium of sheep. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G1098-G1107.	1.6	84
7	Regulation of Trabecular Meshwork Contractility. <i>Ophthalmologica</i> , 2000, 214, 33-53.	1.0	58
8	Modulation of urea transport across sheep rumen epithelium in vitro by SCFA and CO <sub>2</sub> . <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, G190-G202.	1.6	55
9	Sheep rumen and omasum primary cultures and source epithelia: barrier function aligns with expression of tight junction proteins. <i>Journal of Experimental Biology</i> , 2011, 214, 2871-2882.	0.8	39
10	Modulation of sheep ruminal urea transport by ammonia and pH. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R558-R570.	0.9	39
11	Stimulation of cannabinoid (CB1) and prostanoid (EP2) receptors opens BKCa channels and relaxes ocular trabecular meshwork. <i>Experimental Eye Research</i> , 2005, 80, 697-708.	1.2	35
12	Magnesium homeostasis in cattle: absorption and excretion. <i>Nutrition Research Reviews</i> , 2018, 31, 114-130.	2.1	33
13	Basolateral Mg <sup>2+</sup> /Na <sup>+</sup> exchange regulates apical nonselective cation channel in sheep rumen epithelium via cytosolic Mg <sup>2+</sup> . <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, G630-G645.	1.6	32
14	Cultured ruminal epithelial cells express a large-conductance channel permeable to chloride, bicarbonate, and acetate. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 1003-1022.	1.3	32
15	Changes in rumen absorption processes during transition. <i>Animal Feed Science and Technology</i> , 2012, 172, 95-102.	1.1	32
16	Modulation of electroneutral Na transport in sheep rumen epithelium by luminal ammonia. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, G508-G520.	1.6	30
17	Influence of Muscarinic Agonists and Tyrosine Kinase Inhibitors on L-type Ca <sup>2+</sup> Channels in Human and Bovine Trabecular Meshwork Cells. <i>Experimental Eye Research</i> , 2000, 70, 285-293.	1.2	29
18	Evidence for the functional involvement of members of the TRP channel family in the uptake of Na <sup>+</sup> and NH <sub>4</sub> <sup>+</sup> by the ruminal epithelium. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1333-1352.	1.3	29

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19	The bovine TRPV3 as a pathway for the uptake of Na <sup>+</sup> , Ca <sup>2+</sup> , and NH <sub>4</sub> <sup>+</sup> . PLoS ONE, 2018, 13, e0193519.	1.1	26
20	Impact of Bacillus thuringiensis toxin Cry1Ab on rumen epithelial cells (REC) – A new in vitro model for safety assessment of recombinant food compounds. Food and Chemical Toxicology, 2008, 46, 1976-1984.	1.8	23
21	Epithelia of the ovine and bovine forestomach express basolateral maxi-anion channels permeable to the anions of short-chain fatty acids. Pflugers Archiv European Journal of Physiology, 2014, 466, 1689-1712.	1.3	23
22	Flufenamic acid enhances current through maxi-K channels in the trabecular meshwork of the eye. Current Eye Research, 2001, 22, 427-437.	0.7	12
23	Design and Testing of Efficient Mucus-Penetrating Nanogels – Pitfalls of Preclinical Testing and Lessons Learned. Small, 2021, 17, e2007963.	5.2	12
24	Measuring Ca <sup>2+</sup> binding to short chain fatty acids and gluconate with a Ca <sup>2+</sup> electrode: Role of the reference electrode. Analytical Biochemistry, 2014, 459, 46-52.	1.1	11
25	Determination of Henry's constant, the dissociation constant, and the buffer capacity of the bicarbonate system in ruminal fluid. Journal of Dairy Science, 2016, 99, 369-385.	1.4	11
26	The TRPV3 channel of the bovine rumen: localization and functional characterization of a protein relevant for ruminal ammonia transport. Pflugers Archiv European Journal of Physiology, 2020, 472, 693-710.	1.3	11
27	Evaluation of Different Blood Parameters From Endurance Horses Competing at 160 km. Journal of Equine Veterinary Science, 2021, 104, 103687.	0.4	11
28	Assessment of magnesium intake according to requirement in dairy cows. Journal of Animal Physiology and Animal Nutrition, 2019, 103, 1023-1029.	1.0	10
29	The TRPA1 Agonist Cinnamaldehyde Induces the Secretion of HCO <sub>3</sub> <sup>-</sup> by the Porcine Colon. International Journal of Molecular Sciences, 2021, 22, 5198.	1.8	10
30	Effects of the Bacillus thuringiensis Toxin Cry1Ab on Membrane Currents of Isolated Cells of the Ruminal Epithelium. Journal of Membrane Biology, 2007, 219, 37-47.	1.0	9
31	Impact of Increasing Dietary Calcium Levels on Calcium Excretion and Vitamin D Metabolites in the Blood of Healthy Adult Cats. PLoS ONE, 2016, 11, e0149190.	1.1	8
32	TRPV3 and TRPV4 as candidate proteins for intestinal ammonium absorption. Acta Physiologica, 2021, 233, e13694.	1.8	7
33	Beyond Ca <sup>2+</sup> signalling: the role of TRPV3 in the transport of NH <sub>4</sub> <sup>+</sup> . Pflugers Archiv European Journal of Physiology, 2021, 473, 1859-1884.	1.3	5
34	A comparative study of ammonia transport across ruminal epithelia from <i>Bos indicus</i> crossbreds versus <i>Bos taurus</i> . Animal Science Journal, 2018, 89, 1692-1700.	0.6	4
35	Effects of butyrate on ruminal Ca <sup>2+</sup> transport: evidence for the involvement of apically expressed TRPV3 and TRPV4 channels. Pflugers Archiv European Journal of Physiology, 2022, 474, 315-342.	1.3	1
36	Unravelling the secrets of the caecum. Pflugers Archiv European Journal of Physiology, 2019, 471, 925-926.	1.3	0

#	ARTICLE	IF	CITATIONS
37	News in caecal signalling: the role of propionate in microbial-epithelial crosstalk. Pflugers Archiv European Journal of Physiology, 2021, 473, 853-854.	1.3	0
38	Ruminal epithelial cells express high conductance chloride channel. FASEB Journal, 2008, 22, 136-136.	0.2	0
39	Isolated Cells of the Sheep Rumen and Omasum Express Maxiã€anion Channels Permeable to Acetate, Propionate and Butyrate. FASEB Journal, 2010, 24, 1014.4.	0.2	0